Small sized network environment

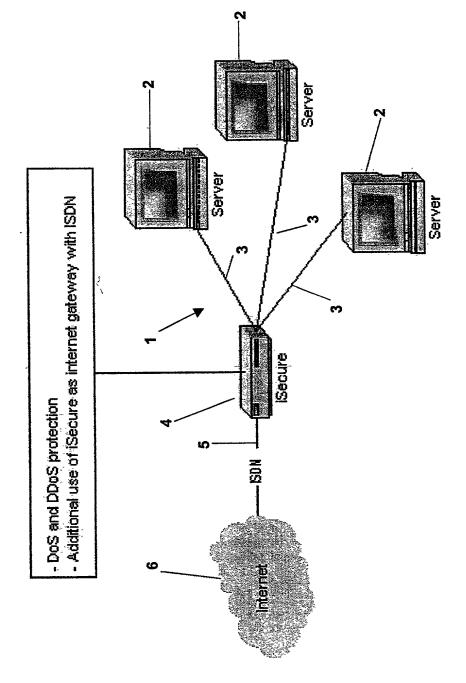


Fig. 1

Medium sized network environment

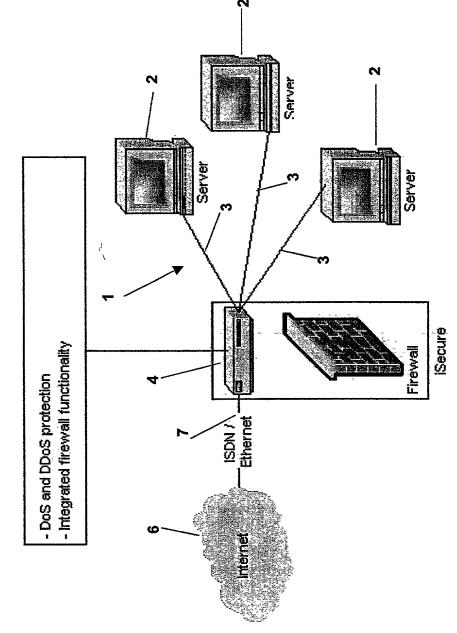


Fig. 2

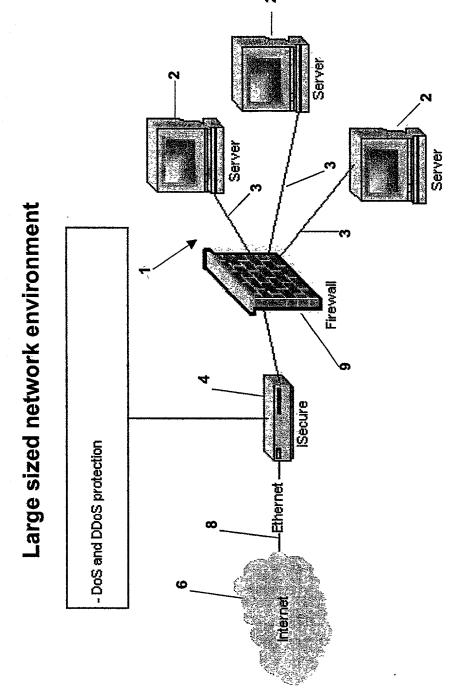


Fig. 3

establishing a connection with the authorized / normal use of the protocol

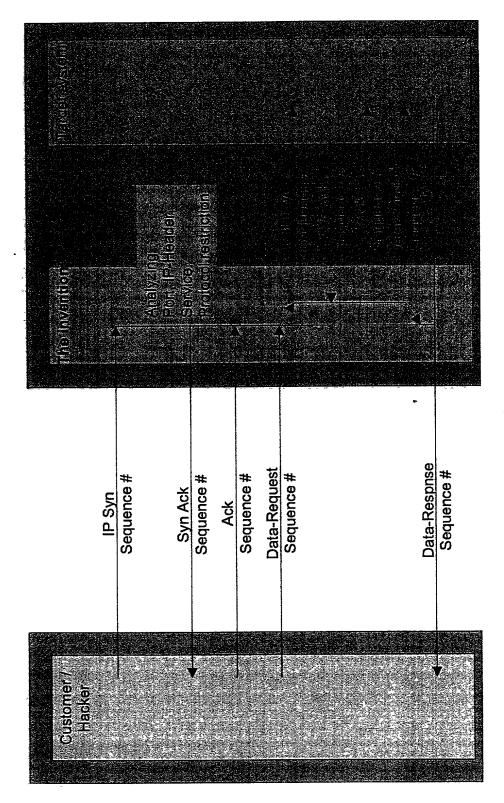


Fig. 4

establishing a connection with the non-authorized / not normal use of the protocol

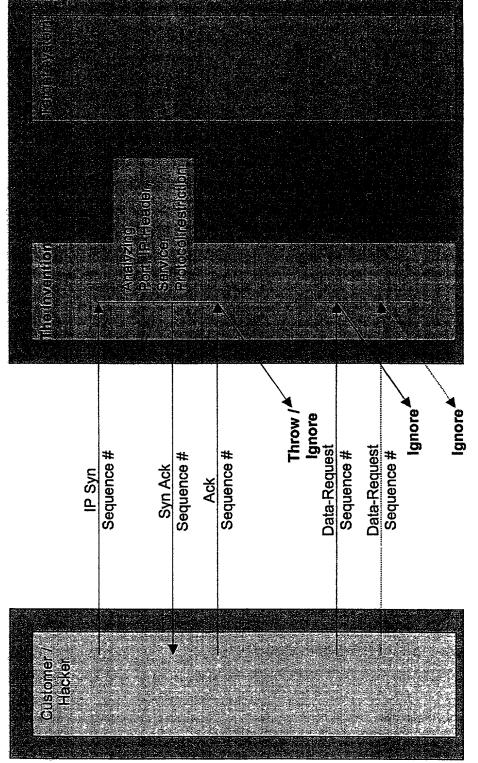


Fig. 5

Failing to establish a connection

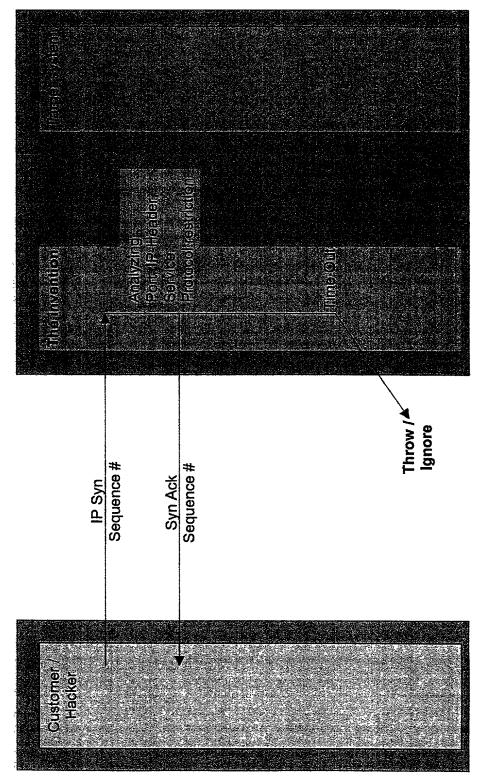


Fig. 6

After establishing a connection with authorized / normal flow of data

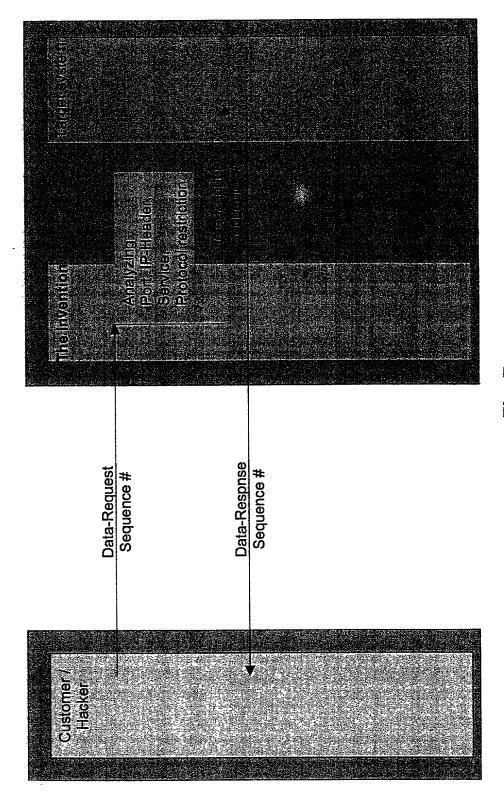
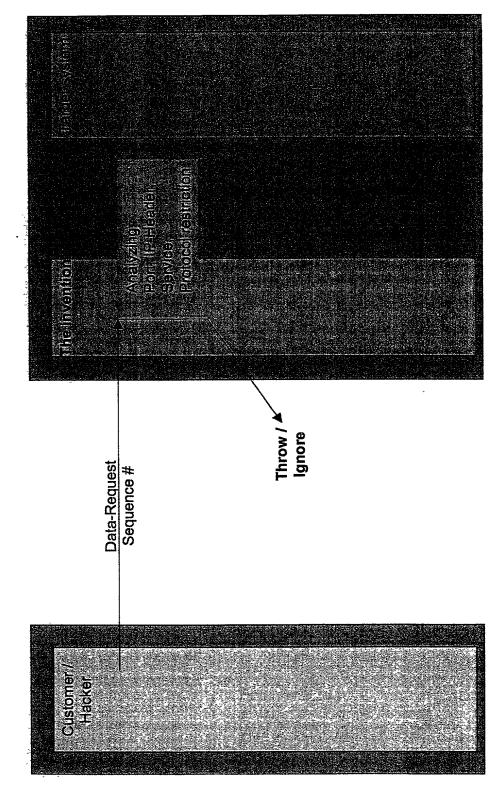


Fig. 7

After establishing a connection with non-authorized / not normal flow of data



Tio.

Application Layer
Presentation Layer
Session Layer
Transport Layer
Network Layer
Link Level

protocol layers

protected

Fig. 9

IP-Header

32 Bits

Version	IHL	Type of Service		Total Length	
	Identii	Identification	O IT	Fragment Offset	fset
Time to Live	Live	Protocol		Header Checksum	E
		Source	Source Address	S	
		Destionation Address	on Add	ress	
		Options		d	Padding

Fig. 10

TCP-Header

32 Bits

ort Destination Port	Sequence Number	Acknowledgement Number	iert control Window Size	Port Urgent Pointer	Options
Source Port		Acl	TCP Header Reserviert length	Source Port	

Fig. 11

UDP-Header

Destination Port UDP Checksum 32 Bits **Source Port UDP** Length

Fig. 12

IP-Header data part

ICMP Type	ICMP Code	ICMP Checksum
	reserved	
IP-Heade	IP-Header and 64 bits original datagram	atagram
ICMP Type	ICMP Code	ICMP Checksum
Pointer	rese	reserved
IP-Heade	IP-Header and 64 bits original datagram	átágram
ICMP Type	ICMP Code	ICMP Checksum
Identification	Sequence Number	
	ICMP Echo Data	A construction of the first of

Fig. 13